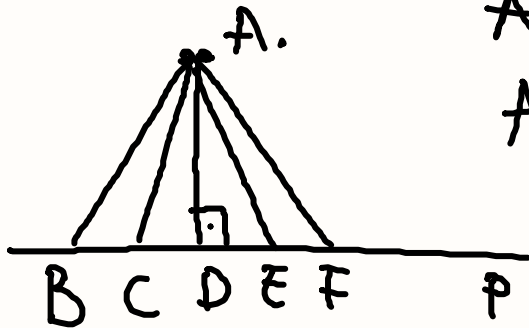


CH.3.3. p.153



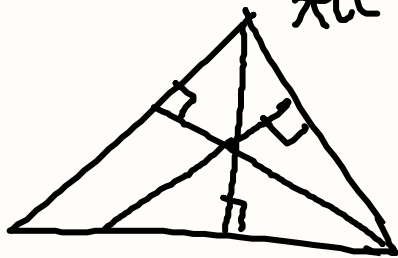
A D - SHORTEST DISTANCE  
AD - PERPENDICULAR  
SEGMENT

FORMS  $90^\circ$  ANGLE  
WITH LINE  $\bar{p}$

C-7 THE SHORTEST DISTANCE  
FROM A POINT TO A LINE IS  
MEASURED ALONG THE PERPENDI-  
CULAR SEGMENT FROM THE POINT TO THE LINE.

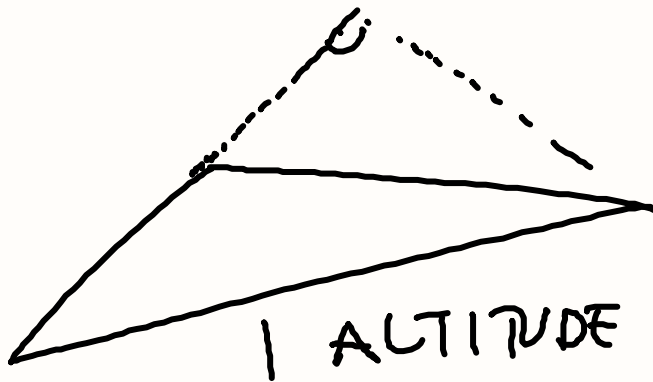
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AN ALTITUDE OF A TRIANGLE  
IS A PERPENDICULAR SEGMENT  
FROM A VERTEX TO THE OPPOSITE SIDE  
OR TO A LINE CONTAINING  
THE OPPOSITE SIDE.



ALL ALTITUDES ARE INSIDE

ACUTE ANGLES ONLY LESS  $90^\circ$



OBTUSE TRIANGLE  
ONE ANGLE  $> 90^\circ$

1 ALTITUDE IS OUTSIDE



$$\angle A = 90^\circ$$

$\overline{AB}$  AND  $\overline{AC}$

ARE ALTITUDES

PRACTICE p. 154 #1-5

p. 155 #13 bonus

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#8-11